

Ping HUANG et al.  
 PHOSPHATE MIMICS AND METHODS  
 OF TREATMENT USING PHOSPHATASE  
 INHIBITORS  
 Atty. Dkt. No. 038602-1618  
 Prior Application SN 09/645,879

Figure 1. Exemplary compounds of the invention.

EX.	STRUCTURE	NAME
1		Bis(4-Trifluoromethylsulfonylbenzyl) ether
2		4-Trifluoromethylsulfonylbenzyl 4-trifluoromethylsulfonylphenyl ether
3		N,N-Bis(4-trifluoromethylsulfonylbenzyl)benzamide
4		1,2-Bis(4-trifluoromethylsulfonylphenyl)ethane
5		N-(4-Trifluoromethylsulfonylbenzyl)-4-trifluoromethylsulfonylbenzamide
6		N-(4-Trifluoromethylsulfonylbenzyl)benzamide
7		Bis(4-Trifluoromethylsulfonylphenyl) disulfide
8		Bis-(2-Nitro-4-trifluoromethylsulfonylphenyl) disulfide

FIG. 1-A

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EX.	STRUCTURE	NAME
8		Bis-(2-Nitro-4-trifluoromethylsulfonylphenyl) disulfide
9		3,5-Bis-(4-trifluoromethanesulfonyl-phenoxy)-benzoic acid methyl ester
10		[3,5-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-phenyl]-acetic acid methyl ester
11		3,5-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-benzoic acid methyl ester
12		1,3-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-cyclopentane
13		4-Methyl-2,6-bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-benzoic acid methyl ester
14		4-[2-(2-Nitro-4-trifluoromethanesulfonyl-phenoxy)ethoxy]-benzoic acid methyl ester
15		4-[3-(2-Nitro-4-trifluoromethanesulfonyl-phenoxy)phenoxy]-benzoic acid

FIG. 1-B

EX.	STRUCTURE	NAME
16		1-(3,5-Bis-trifluoromethyl-phenyl)-5-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-1H-pyrazole-3-carboxylic acid methyl ester
17		{4-[4-(2-Nitro-4-trifluoromethanesulfonyl-phenoxy)-benzenesulfonyl]-phenoxy}-acetic acid ethyl ester
18		4-[3-(4-Trifluoromethanesulfonyl-phenoxy)-phenoxy]-benzoic acid
19		{4-[4-(4-Trifluoromethanesulfonyl-phenoxy)-benzenesulfonyl]-phenoxy}-acetic acid ethyl ester
20		N-(3-Trifluoromethanesulfonyl-phenyl)-2-{2-[(3-trifluoromethanesulfonyl-phenylcarbamoyl)-methyl]-phenyl}-acetamide
21		N-(3-Trifluoromethanesulfonyl-phenyl)-2-{3-[(3-trifluoromethanesulfonyl-phenylcarbamoyl)-methyl]-phenyl}-acetamide
22		N-(3-Trifluoromethanesulfonyl-phenyl)-2-{4-[(3-trifluoromethanesulfonyl-phenylcarbamoyl)-methyl]-phenyl}-acetamide

FIG. 1-C

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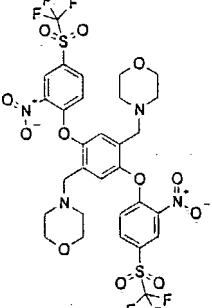
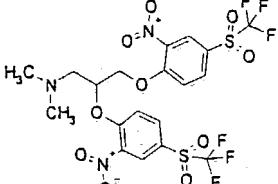
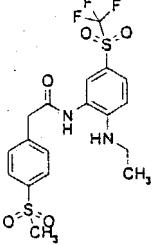
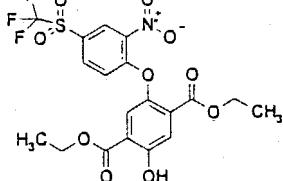
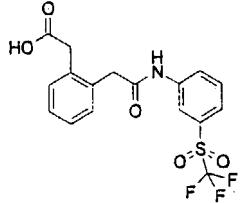
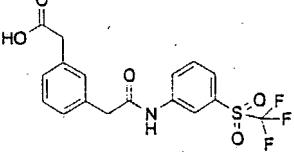
EX.	STRUCTURE	NAME
23		3,6-Bis-(morpholin-4-ylmethyl)-2,5-bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-benzene
24		[2,3-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propyl]-dimethyl-amine
25		N-(2-Ethylamino-5-trifluoromethanesulfonyl-phenyl)-2-(4-methanesulfonyl-phenyl)-acetamide
26		2-Hydroxy-5-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-terephthalic acid diethyl ester
27		{2-[(3-Trifluoromethanesulfonyl-phenylcarbamoyl)methyl]-phenyl}-acetic acid
28		{3-[(3-Trifluoromethanesulfonyl-phenylcarbamoyl)methyl]-phenyl}-acetic acid

FIG. 1-D

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EX.	STRUCTURE	NAME
29		{4-[(3-Trifluoromethanesulfonyl-phenylcarbamoyl)-methyl]-phenyl}-acetic acid
30		3,5-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-benzamide
31		3,5-Bis-(4-trifluoromethanesulfonyl-phenoxy)-benzoic acid
32		<i>N</i> -(4-Trifluoromethanesulfonyl-phenyl)-2-{2-[(4-trifluoromethanesulfonyl-phenylcarbamoyl)-methyl]-phenyl}-acetamide
33		<i>N</i> -(4-Trifluoromethanesulfonyl-phenyl)-2-{3-[(4-trifluoromethanesulfonyl-phenylcarbamoyl)-methyl]-phenyl}-acetamide
34		<i>N</i> -(4-Trifluoromethanesulfonyl-phenyl)-2-{4-[(4-trifluoromethanesulfonyl-phenylcarbamoyl)-methyl]-phenyl}-acetamide

FIG. 1-E

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EX.	STRUCTURE	NAME
35		4-(1-Ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazol-2-yl)-benzoic acid methyl ester
36		4-(1-Ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazol-2-yl)-benzoic acid
37		4-(1-Ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazol-2-yl)-N-pyridin-4-yl-benzamide
38		4-(1-Ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazol-2-yl)-N-(4-methoxy-phenyl)-benzamide
39		3-[4-(1-Ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazol-2-yl)-benzoylamino]-benzoic acid ethyl ester
40		4-(1-Ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazol-2-yl)-N-(2-pyrrolidin-1-yl-ethyl)-benzamide
41		N-Ethyl-4-(1-ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazol-2-yl)-benzamide
42		1-Ethyl-5-trifluoromethanesulfonyl-1H-benzoimidazole-2-carboxylic acid
43		[2-(Benzoyl-butyl-amino)-2-(4-trifluoromethanesulfonyl-phenyl)-acetylamino]-acetic acid methyl ester

FIG. 1-F

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EX.	STRUCTURE	NAME
44		<i>N</i> -Benzyl- <i>N</i> -[butylcarbamoyl-(4-trifluoromethanesulfonyl-phenyl)-methyl]-benzamide
45		<i>N</i> -[Butylcarbamoyl-(4-trifluoromethanesulfonyl-phenyl)-methyl]- <i>N</i> -(2-hydroxy-ethyl)-benzamide
46		[2-(Acetyl-cyclopropyl-amino)-2-(4-trifluoromethanesulfonyl-phenyl)-acetylamino]-acetic acid ethyl ester
47		[2-(Acetyl-methyl-amino)-2-(4-trifluoromethanesulfonyl-phenyl)-acetylamino]-acetic acid ethyl ester
48		[2-(Benzoyl-cyclohexyl-amino)-2-(4-trifluoromethanesulfonyl-phenyl)-acetylamino]-acetic acid ethyl ester
49		<i>N</i> -Cyclohexyl- <i>N</i> -[(2,6-dimethyl-phenylcarbamoyl)-(4-trifluoromethanesulfonyl-phenyl)-methyl]-benzamide
50		[2-(Acetyl-propyl-amino)-2-(4-trifluoromethanesulfonyl-phenyl)-acetylamino]-acetic acid ethyl ester
51		[2-(Acetyl-cyclohexyl-amino)-2-(4-trifluoromethanesulfonyl-phenyl)-acetylamino]-acetic acid ethyl ester

FIG. 1-G

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EX.	STRUCTURE	NAME
52		{4-[4-(2-Nitro-4-trifluoromethanesulfonyl-phenoxy)-benzenesulfonyl]-phenoxy}-acetic acid
53		4-[2-(2-Nitro-4-trifluoromethanesulfonyl-phenoxy)ethoxy]-benzoic acid
54		2,5-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-terephthalic acid diethyl ester
55		1-[2,3-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propyl]-piperidine
56		4-[2,3-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propyl]-morpholine
57		[2,3-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propyl]-{(2-nitro-4-trifluoromethanesulfonyl)-phenyl}-amine

FIG. 1-H

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EX.	STRUCTURE	NAME
58		1-(2-Nitro-phenylamino)-3-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propan-2-ol
59		[2,3-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propyl]-[4-nitro-phenyl]-amine
60		1-(4-Nitro-phenylamino)-3-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propan-2-ol
61		4-[2-Hydroxy-3-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propylamino]-benzenesulfonamide
62		4-[2,3-Bis-(2-nitro-4-trifluoromethanesulfonyl-phenoxy)-propylamino]-benzenesulfonamide
63		Bis-{[4-(2-nitro-4-trifluoromethanesulfonyl)-phenoxy]-phenyl}sulfone
64		2-[4-(Difluoro-methanesulfonyl)-phenyl]-5-naphthalen-2-yl-oxazole

FIG. 1-I

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EX.	STRUCTURE	NAME
65		[2-Nitro-4-(1,1,2,2-tetrafluoro-ethanesulfonyl)-phenyl]-p-tolyl-amine
66		1,2-Bis(4-trifluoromethylsulfonamidophenyl)ethane
67		1,2-Bis(2-methyl-4-trifluoromethylsulfonamidophenyl)ethane
68		1,3-Bis(4-trifluoromethylsulfonamidophenoxy)-2,2-dimethylpropane
69		1,3-Bis(4-trifluoromethylsulfonamidophenoxy)propane
70		1,4-Bis(4-trifluoromethylsulfonamidophenoxy)butane
71		1,4-Bis(4-trifluoromethylsulfonamidophenoxy)benzene
72		1-(4-Aminophenoxy)-4-trifluoromethylsulfonamidophenoxy benzene
73		Bis(4-trifluoromethylsulfonamidophenyl) ether

FIG. 1-J

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EX.	STRUCTURE	NAME
74		1,3-Bis(4-trifluoromethylsulfonamidophenoxy)benzene
75		2,5-Bis(4-trifluoromethylsulfonamidophenyl)-(1,3,4)oxadiazole
76		Bis(4-trifluoromethylsulfonamidophenyl)-1,4-diisopropylbenzene
77		5-Trifluoromethanesulfonylamino-1H-indole-2-carboxylic acid
78		1-Methyl-5-trifluoromethanesulfonylamino-1H-indole-2-carboxylic acid
79		(2-Methyl-5-trifluoromethanesulfonylamino-indol-1-yl)-acetic acid
80		1-Methyl-5-trifluoromethanesulfonylamino-1H-indole-2-carboxylic acid phenylamide
81		5-Trifluoromethanesulfonylamino-1H-indole-2-carboxylic acid phenylamide
82		3-[(1-Methyl-5-trifluoromethanesulfonylamino-1H-indole-2-carbonyl)-amino]-benzoic acid

FIG. 1-K

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EX.	STRUCTURE	NAME
83		3-[(5-Trifluoromethanesulfonylamino-1H-indole-2-carbonyl)-amino]-benzoic acid
84		4-[(5-Trifluoromethanesulfonylamino-1H-indole-2-carbonyl)-amino]-benzoic acid
85		4-[2-(2-Methyl-5-trifluoromethanesulfonylamino-indol-1-yl)-acetylamino]-benzoic acid
86		3-[2-(2-Methyl-5-trifluoromethanesulfonylamino-indol-1-yl)-acetylamino]-benzoic acid
87		4-[(2-(2-Methyl-5-trifluoromethanesulfonylamino-indol-1-yl)-acetylamino)-methyl]-benzoic acid
88		(2-Methyl-5-trifluoromethanesulfonylamino-indol-1-yl)-acetic acid <i>tert</i> -butyl ester
89		1-Methyl-5-trifluoromethanesulfonylamino-1H-indole-2-carboxylic acid ethyl ester
90		6-Trifluoromethanesulfonylamino-naphthalene-2-carboxylic acid

FIG. 1-L

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EX.	STRUCTURE	NAME
91		<i>N,N</i> -Bis[(6-carboxyl-naphthalen-2-yl)methyl]trifluoromethanesulfonamide
92		6-[(Methyl-trifluoromethanesulfonyl-amino)-methyl]-naphthalene-2-carboxylic acid
93		3-(6-[(Methyl-trifluoromethanesulfonyl-amino)-methyl]-naphthalene-2-carbonyl)-amino)-benzoic acid
94		1-tert-Butoxycarbonylmethyl-5-trifluoromethanesulfonylamino-1 <i>H</i> -indole-2-carboxylic acid ethyl ester
95		1-Carboxymethyl-5-trifluoromethanesulfonylamino-1 <i>H</i> -indole-2-carboxylic acid ethyl ester
96		1-tert-Butoxycarbonylmethyl-5-trifluoromethanesulfonylamino-1 <i>H</i> -indole-2-carboxylic acid
97		1-Carboxymethyl-5-trifluoromethanesulfonylamino-1 <i>H</i> -indole-2-carboxylic acid
98		1-Carboxymethyl-5-( <i>N,N</i> -ditrifluoromethanesulfonyl)amino-1 <i>H</i> -indole-2-carboxylic acid ethyl ester

FIG. 1-M

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EX.	STRUCTURE	NAME
99		1- <i>tert</i> -Butoxycarbonylmethyl-5-( <i>N,N</i> -ditrifluoromethanesulfonyl)amino-1 <i>H</i> -indole-2-carboxylic acid ethyl ester
100		1-Carboxymethyl-5-( <i>N,N</i> -ditrifluoromethanesulfonyl)amino-1 <i>H</i> -indole-2-carboxylic acid
101		1-Cyclohexylmethyl-5-trifluoromethanesulfonylamino-1 <i>H</i> -indole-2-carboxylic acid ethyl ester
102		1-Benzyl-5-trifluoromethanesulfonylamino-1 <i>H</i> -indole-2-carboxylic acid
103		1-Cyclohexylmethyl-5-trifluoromethanesulfonylamino-1 <i>H</i> -indole-2-carboxylic acid

FIG. 1-N